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APPLICATION NO.	F	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/017,437	*	12/18/2001	Galla Chandra Rao	FF MP 01	6369
40541	7590	11/18/2004		EXAM	INER
IMMUNIC	CON COF	RPORATION	YU, MELANIE J		
3401 MASO SUITE 100	ONS MILI	L ROAD	ART UNIT	PAPER NUMBER	
	DON VAI	LLEY, PA 19006	1641		
				DATE MAILED: 11/18/200	1

Please find below and/or attached an Office communication concerning this application or proceeding.

## Part Office Action Summary Texaminer		Application No.	Applicant(s)						
## Examiner Melanile Yu 1641 ## The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Repty A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE of THIS COMMUNICATION. Educations of time may be available under the provisions of 37 CFR 1.15(b). In one event, however, may a regly be time the provision of the cover sheet with the correspondence address ## 14 to period for regly is pecified above. The maintens statistically provide will apply and will expire SX (8) MXDR116 from the maining date of this communication. ## 14 to period for regly specified above. The maintens statistically provide will apply and will expire SX (8) MXDR116 from the maining date of this communication. ## 14 to period for regly specified above. The maintens statistically provide will apply and will expire SX (8) MXDR116 from the maining date of this communication. ## 15 to period for regly specified above. The maintens of the period of the communication and the state of the communication. ## 15 to period for regly specified above. The maintens of the period of the communication. ## 16 to period for regly specified above. The maintens of the communication and the specified and the state of the communication. ## 16 to period for regly specified above. The maintens of the communication. ## 16 to period for regly specified above. The maintens of the communication. ## 16 to period for regly specified above. The maintens of the communication. ## 16 to period for regly specified above. The maintens of the communication. ## 16 to period for regly specified above. The maintens of the communication. ## 16 to period for regly specified above. The maintens of the communication. ## 16 to period for regly specified above. The maintens of the period specified above. The maintens of the period specified above. The maintens of the maintens of th									
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DETAILED ACTION

Election/Restrictions

1. Applicant's election of group I, claims 1-11 and 15-17 in the reply filed on October 7, 2004 is acknowledged. Because applicant did not distinctly and specifically point out the supposed errors in the restriction requirement, the election has been treated as an election without traverse (MPEP § 818.03(a)). Claims 12-14 have been withdrawn from consideration as being drawn to a non-elected invention.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

2. Claims 1-11 and 15-17 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Regarding claim 1, it is unclear whether the magnetic particle is actually bound to the non-magnetic particle, the limitation of being capable of binding does not mean the magnetic particle is actually bound to the non-magnetic particle. It is unclear how many free binding sites are encompassed by variable amounts of free binding sites.

With respect to claim 6, it is unclear if the magnetic particles are actually directly or indirectly bound to the at least three additional entities. It is also unclear if the three additional entities must be capable of binding to the magnetic particle simultaneously and if the at least three additional entities must be different.

Regarding claim 7, it is unclear if the detectable labels are linked to the first binding partner of claim 1, or the detectable labels are linked to a different first binding partner. It is unclear if the additional entities listed are targets for binding or the additional entities are attached to the magnetic particle for the binding other targets.

With respect to claims 15-17, the recited term "size" is vague and indefinite because it is unclear to what dimension the size is referring.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 3. Claims 1-11 are rejected under 35 U.S.C. 102(b) as being anticipated by Kausch et al. (US 5,665,582).

Kausch et al. teach a composition comprising non-magnetic microparticles operably linked with a first binding partner (col. 11, line 65 – col. 12, line 1) capable of binding to a complementary second binding partner, said binding partner being operably linked to magnetic particles (col. 18, lines 54-57) smaller than the average size of the non-magnetic particles (col. 12, lines 1-6), wherein the non-magnetic microparticles are either unlabeled (col. 13, line 62 – col. 14, line 10; col. 18, lines 57-61) or detectably labeled (col. 15, lines 4-10; col. 18, lines 57-61). Kausch et al. teach the first binding partner being biotin (between the microbead and the cell, col. 14, lines 6-10; between the magnetic particle and the cell, col. 18, lines 54-57) and the

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complementary binding partner being an avidin species (avidin coated magnetic particles, col. 18, lines 54-57).

Regarding claims 6-11, Kausch et al. teach free binding sites on the layer of magnetic particles that are capable of directly or indirectly binding at least three additional entities (col. 21, lines 12-25). The additional entities are selected from the group consisting of: one or more target specific third binding partners, being an oligonucleotide probe complementary to a garget oligonucleotide sequence or an antibody, operably linked to said first binding partner (col. 17, lines 44-47; col. 23, lines 41-42; col. 34, lines 20-35); a fluorescent compound linked to the first binding partner (col. 6, lines 16-36; col. 8, lines 9-11; col. 18, lines 54-64; col. 20, lines 29-32); a biotin species with affinity for blocking residual binding sites on the second binding partner located on the magnetic microparticles (col. 24, lines 3-13); and a detectably labeled target specific fourth binding partner capable of recognizing epitopes on target entities different from those recognized by the third binding partner (a nucleic acid probe is specific to proteins; col. 18, lines 7-10).

4. Claims 15-17 are rejected under 35 U.S.C. 102(b) as being anticipated by Liberti et al. (US 6,013,532).

Liberti et al. teach a composition comprising magnetic particles bound to particles having a detectable fluorescent label (col. 12, lines 35-58), said magnetic particles having an average diameter of 0.2 μ m or less (col. 5, line 65 – col. 6, line 7), which is less than the average diameter of the particles having a detectable fluorescent label with a size of 10 μ m (col. 7, lines 58-62), which falls within the recited range of an average size from about 1 to about 20 μ m.

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Conclusion

No claims are allowed.

5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Wang et al. (US 5,091,206) teach a layer of small magnetic particles coated on a larger non-magnetic particle, but fail to teach binding between biotin and avidin species.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Melanie Yu whose telephone number is (571) 272-2933. The examiner can normally be reached on M-F 8:30-5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Long Le can be reached on (571) 272-0823. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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Melanie Yu Patent Examiner Art Unit 1641

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